	Application No.	Applicant(s)
Notice of Allowability		
	09/982,782 Examiner	ISHIKAWA ET AL. Art Unit
	Drien D. Enen	4770
	Brian P. Egan	1772
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS erewith (or previously mailed), a Notice of Allowance (PTOL-85) OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIFE the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
This communication is responsive to amendment filed 1/22	<u>2/04</u> .	
. ☑ The allowed claim(s) is/are <u>1-17</u> .		
. The drawings filed on are accepted by the Examine	ſ.	
 . Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 	ider 35 U.S.C. § 119(a)-(d) (or (1).
1. ☑ Certified copies of the priority documents have	been received.	
2. Certified copies of the priority documents have		n No
3. Copies of the certified copies of the priority do	cuments have been received	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	v (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	<i>:</i>	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
ttochmont(c)		
	5. ☐ Notice of In	formal Patent Application (PTO-152)
. ☐ Notice of References Cited (PTO-892)		formal Patent Application (PTO-152) ummary (PTO-413),
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) □ Information Disclosure Statements (PTO-1449 or PTO/SB/0 	6. ☐ Interview Su Paper No./	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 	6. ☐ Interview St Paper No./ 08), 7. ☒ Examiner's	ummary (PTO-413), Mail Date Amendment/Comment
. ☐ Notice of References Cited (PTO-892) . ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) . ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Su Paper No./ 7. ☒ Examiner's 8. ☒ Examiner's	ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance
. ☐ Notice of References Cited (PTO-892) . ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) . ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	6. ☐ Interview St Paper No./ 08), 7. ☒ Examiner's	ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance
. Examiner's Comment Regarding Requirement for Deposit	6. ☐ Interview Su Paper No./ 7. ☒ Examiner's 8. ☒ Examiner's	ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance

Application/Control Number: 09/982,782

Art Unit: 1772

NOTICE OF ALLOWANCE

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Harris Pitlick on April 4, 2004.

The application has been amended as follows:

IN THE CLAIMS:

CLAIM 1:

Line 1, insert the word -- metal -- after the phrase "comprising a peelable".

Line 3, delete the phrase "at least one of" after "wherein".

Line 3, delete the phrase "and said top layer" after "said substrate".

CLAIM 12:

Line 1, delete the word "Withdrawn" after the symbol "(" and before the symbol ")".

Line 1, insert the word -- Original -- after the symbol "(" and before the symbol ")".

CLAIM 13:

Line 1, delete the word "Withdrawn" after the symbol "(" and before the symbol ")".

Application/Control Number: 09/982,782

Art Unit: 1772

Line 1, insert the word -- Original -- after the symbol "(" and before the symbol ")".

CLAIM 14:

Line 1, delete the word "Withdrawn" after the symbol "(" and before the symbol ")".

Line 1, insert the word -- Original -- after the symbol "(" and before the symbol ")".

CLAIM 15:

Line 1, delete the word "Withdrawn" after the symbol "(" and before the symbol ")".

Line 1, insert the word -- Original -- after the symbol "(" and before the symbol ")".

Rejoinder of Claims

2. Claims 1-11 and 16-17 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 12-15, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 12-15 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in Paper No. 5 is hereby withdrawn.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: the invention as claimed, namely a laminate comprising a peelable metal top layer, a porous substrate, and a

Application/Control Number: 09/982,782

Art Unit: 1772

bonding layer between the top layer and the substrate, wherein the bonding layer exhibits a tensile strength between 1 and 28 MPa and a percent elongation between 100 and 2000%, and wherein the bonding layer is an aqueous dispersion containing a polymer and microspheres with thermal expansion capability that upon heating, increase in volume and facilitate peeling of the top layer from the substrate, is neither anticipated or fairly suggested by the prior art of record.

The most pertinent prior art of record are the teachings of JP 09-194811 and Darvell et al. (#4,855,170). As detailed in the previous office actions, JP '811 teaches a laminate comprising a peelable metal top layer, a substrate, and a bonding layer, but fails to teach the use of expandable microspheres to facilitate peeling of the metal top layer from the laminate structure. Although Darvell et al. teach the use of expandable microspheres, Darvell et al. explicitly state that "it is interesting to note that expansion of the microspheres appears to decrease the adhesion to automotive enamel but increase the adhesion to stainless steel." Thus, Darvell et al. explicitly teach away from the use of expandable microspheres that expand and facilitate peelability of a metal substrate. Instead, the microspheres as disclosed in Darvell et al. actually increase adhesion to metal substrates upon thermal expansion. Therefore, the adhesive composition as claimed by the Applicant in combination with the expandable microspheres achieves an unexpected result with regards to peelability of the metal top layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1772

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian P. Egan whose telephone number is 571-272-1491. The examiner can normally be reached on M-F, 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Y. Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BPE Jululoy

HAROLD PYON
SUPERVISORY PATENT EXAMINER
4/14/04